Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

Sample course plan C Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Mechanical Engineering, Focus Materials in Engineering Sciences

Compulsory	Comp	ulsory	,,,,,	complement	
Core qualification Elec		alisation Elective	Focus Elective Compulsor	Interdisciplinary	
Core qualification Compulsory	Specia	alisation Compulsory	Focus Compulsory	Thesis Compulsory	
Legend:					

LP Semester 1	. Forming	s/wikemester 2 F	or ith rs,	/wskemester 3 Fo	or itti rs/	/wskemester 4 For	r itti rs/	Wskemester 5 Fo	r itti rs/	Skmester 6	Formers	/wskemester 7 Formers/v
Chemistry I Chemistry I Chemistry I Chemistry I Chemistry I	VL 2 II VL 2 I HÜ 1	Electrical Engineering Alternating Current Networks and Basic Devices Electrical Engineering V II: Alternating Current Networks and Basic Devices Electrical Engineering U II: Alternating Current Networks and Basic Devices	/L 3	Thermodynamics II Technical HÜ Thermodynamics II	_ 2 Ü 1 ≣ 1	Mechanical Engineering Design (part 2) Team Project Design Methodology Mechanical Design PBL Project II Fundamentals of Materials Science (part Fundamentals of VL Materials Science II	L2 L3	Control Systems	. 2	Foundations of Management Introduction to Management Management Tutorial	VL 3 UE 2	Advanced Internship AIW/ GES
8 Direct Cur and Electr Fields Electrical E I: Direct Cu Networks a Electromag 10 Electrical E 11 I: Direct Cu Networks a	nd Inetic Fields ngineering UE 2 rrent	Mechanical Engineering Design	ng /L 2 HÜ 2	Analysis III UE	_ 2	Advanced Mechanical Engineering Design (par 2) Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics VL Fluid Mechanics HÜ	2 2 3	Computer Engineering VL Computer Engineering UE		Fundamentals: Metals Enhanced Fundamentals: Ceramics and Polymers	vL 2 VL 2 VL 2	
13 14 Linear Alge Linear Alge Linear Alge Linear Alge Analysis I Analysis I Analysis I	bra I VL 2 bra I UE 1	Thermodynamics I Technical H Thermodynamics I	/L 2 HÜ 1 JE 1	Mechanics III UE	. 3 E 2 Ü 1	Mechanics IV (Kinetics I Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL Mechanics IV UE Mechanics IV HÜ	3 2 1	Technology for Mechanical Engineering Measurement Technology for Mechanical Engineering	ers . 2	Mechanical Properties of Materials Advanced Materials Advanced Materials Characterization Advanced Materials Design	VL 2 VL 2 VL 2 HÜ 2	Bachelor Thesis
20 21 Mechanics Mechanics	s I (Statics) I VL 2	of Materials Mechanics II V	/L 2 JE 2	Mechanical Engineering Design (part 1)	_	Signals and Systems Signals and Systems VL		Numerical VL Mathematics I	. 2			Dachelor Thesis

23	Mechanics I Mechanics I	UE 2 HÜ 1	Mechanics II	HÜ 2	Embodiment Design VL and 3D-CAD Mechanical Design PB Project I		Signals and Systems	UE 2	Mathematics I
24 25 26 27			Mathematics II Linear Algebra II	VL 2	Fundamentals of Materials Science (part Fundamentals of VL				Structural Materials (part 1)
	Programming in C Programming in C Programming in C	VL 1 PR 1	Linear Algebra II H Analysis II VI Analysis II H	UE 1 HÜ 1 VL 2 HÜ 1 UE 1	Materials Science I Physical and Chemical VL Basics of Materials Science	. 2			Welding Technology VL 3
28 29 30	Physics for Enginee (AIW) Physics for Engineers Physics for Engineers	VL 2			Advanced Mechanical Engineering Design (pa 1) Advanced Mechanical VL Engineering Design I Advanced Mechanical HÜ Engineering Design I	. 2			Material Science Laboratory Companion Lecture VL 2 for Materials Science Laboratory Material Science PR 4 Laboratory
31 32 33	Nontechnical Complem		Course for Dook	(6	dans) (ID				

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.